

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 03044203
PUBLICATION DATE : 26-02-91

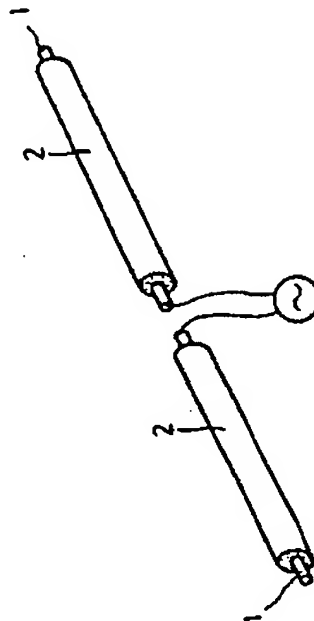
APPLICATION DATE : 12-07-89
APPLICATION NUMBER : 01179885

APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : NAITO AKIRA;

INT.CL. : H01Q 9/16 H01Q 1/40

TITLE : ANTENNA



ABSTRACT : PURPOSE: To miniaturize a wave transmitter-receiver and to improve the weather resistance and to improve the reception sensitivity by providing a magnetic power compounded layer on the outer circumference of the wave transmitter- receiver.

CONSTITUTION: A magnetic powder mixed plastic layer 2 is provided at the outer circumference of a wave transmitter-receiver 1 made of a conductor. The magnetic powder mixed plastic layer 2 is formed cylindrical in advance, the wave transmitter-receiver 1 is inserted to the hole to provide the layer 2 on the wave transmitter-receiver 1. Then the magnetic powder mixed-plastic layer 2 acts equivalently like a distribution inductance on the wave transmitter- receiver 1 to prolong the length of the wave transmitter-receiver 1 substantially. Thus, the length of the wave transmitter-receiver 1 is reduced and since the magnetic powder mixed plastic layer 2 absorbs a radio wave, the reception sensitivity is improved and since the wave transmitter-receiver 1 is coated by the magnetic powder mixed plastic layer 2 and not exposed, the weather resistance is improved.

COPYRIGHT: (C)1991,JPO&Japio